SPECTROSCOPIC DATABASES FOR THE VAMDC PORTAL: NEW TOOLS AND IMPROVEMENTS

CYRIL RICHARD, VINCENT BOUDON, *Laboratoire ICB, CNRS/Université de Bourgogne, DIJON, France*; NICOLAS MOREAU, MARIE-LISE DUBERNET, *LERMA2, CNRS UMR8812, Observatoire de Paris, MEUDON, France*.

Dijon spectroscopic databases include calculated line lists, in positions and intensities, that are obtained from experimental spectroscopic analyses. They contain 6 molecules: CH_4, C_2H_4, CF_4, SF_6, GeH_4 and RuO_4 and are all compatibles with the XSAMS (XML Schema for Atoms, Molecules, and Solids) format adopted with the Virtual Atomic and Molecular Data Centre (VAMDC) Project. VAMDC, the worldwide consortium which federates atomic and molecular databases through an e-science infrastructure, aims to provide a unique access point for scientists seeking the best atomic and molecular data for their studies. So far, development of new tools allows to easily download and compare data issued from different databases in a single XML document or into the HITRAN2004 format. Making the comparison that easy will help data users in the choice of data that best match their needs. It will also help data producers by checking the consistency of their data.